



UNITED STATES MARINE CORPS
3D MARINE AIRCRAFT WING, MARFORPAC
MARINE CORPS AIR STATION MIRAMAR
P O BOX 452038
SAN DIEGO, CALIFORNIA 92145-2038

IN REPLY REFER TO:
WgO P3440.4G
G-3
APR 02 1999

WING ORDER P3440.4G w/ch 1

From: Commanding General
To: Distribution List

Subj: STANDING OPERATING PROCEDURES FOR NUCLEAR, BIOLOGICAL AND CHEMICAL
DEFENSE (SHORT TITLE: SOP FOR NBC DEFENSE)

Ref: (a) MCO 1510.71
(b) MCO 3400.3E
(c) MCO P3500.16A
(d) MCO P3500.17
(e) MCO 4790.2B
(f) BUMEDINST 6810.4G, Ophthalmic Service (NOTAL)
(g) FMFPacO 3401.13A
(h) WgO 3400.3H
(i) WgO 3440.5B

Encl: (1) LOCATOR SHEET

Reports Required: I. Monthly Mask Confidence Exercise Status Report
(Appendix A)
II. Quarterly NBC Defense Status Report (Appendix B)
III. Quarterly 3d MAW NBC Defense Equipment Report
(Appendix C)

1. Purpose. To promulgate the Nuclear, Biological and Chemical (NBC) Defense Readiness requirements for 3d Marine Aircraft Wing per references (a) through (i).

2. Cancellation. WgO P3440.4F

3. Background. This Manual assigns responsibilities and establishes standard procedures for organization, equipment, training and management of NBC Defense Operations within the 3d MAW.

4. Implementation. The provisions of this Manual are effective upon receipt and shall be executed in accordance with instructions contained herein.

5. Action. Commanding Officers will ensure that NBC Defense Operations are conducted in accordance with the requirements of this Manual.

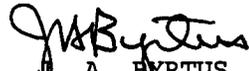
6. Summary of Revision. This Manual has been updated and contains a substantial number of changes and must be completely reviewed.

WgO 3440.4G

2 APR 1999

7. Recommendations. Recommendations concerning the contents of the SOP for NBC Defense are invited. Recommendations will be forwarded to the Commanding General, 3d MAW (Attn: AC/S, G-3, NBCD Officer) via the appropriate chain of command.

8. Certification. Reviewed and approved this date.


J. A. EVERTUS
Chief of Staff

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WgO P3440.4G Ch 1
G-3/NBC
NOV 06 2001

WING ORDER P3440.4G Ch 1

From: Commanding General
To: Distribution List

Subj: STANDING OPERATING PROCEDURES FOR NUCLEAR, BIOLOGICAL AND
CHEMICAL DEFENSE (SHORT TITLE: SOP FOR NBC DEFENSE)

1. Purpose. To direct pen changes to the basic Manual.
2. Action
 - a. On page 1 of the basic Manual after reference (i) add the following: (j) TM 11275-1514.
 - b. On page 1-5, delete paragraph 1005.4. in its entirety and renumber subparagraphs 5 through 9.
 - c. On page 1-7, after paragraph 1010.12. add paragraph 13 as follows: Assigned as a licensing officer for B1291, M17 Decontamination apparatus. Ensure NBC School Licensing Examiners have a thorough knowledge of the equipment and periodically check their test evaluations.
 - d. On page 1-8, after paragraph 1012.5. add paragraph 6 as follows: MOS trained 5711's attached to the school are assigned as licensing Examiners for B1291, M17 apparatus.
3. Summary of Changes. The changes assign the 3D MAW NBCD Officer as the licensing Officer for B1291, M17. Examiners will be the Marines assigned to the 3D MAW NBCD School.
4. Filing Instruction. This change transmittal will be filed immediately following the signature page of the basic Manual.

6. Certification. Reviewed and approved this date.

T. G. Robling
T. G. ROBLING
Chief of Staff

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SOP FOR NBC DEFENSE

LOCATOR SHEET

Subj: STANDING OPERATING PROCEDURES FOR NUCLEAR, BIOLOGICAL AND
CHEMICAL DEFENSE (SHORT TITLE: SOP FOR NBC DEFENSE)

Location: _____
(Indicate the location(s) of this Manual)

SOP FOR NBC DEFENSE

RECORD OF CHANGES

Log completed change(s) as indicated.

Change Number	Date Changed	Date Received	Date Entered	Signature of Person Incorporating Change

SOP FOR NBC DEFENSE

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SOP FOR NBC DEFENSE

INTRODUCTION

0001. GENERAL. The primary concern of NBC Defense is to allow the unit to accomplish the mission while minimizing casualties and damage caused by enemy attack and/or employment of nuclear, chemical or biological weapons. All commanders will ensure that well integrated training programs are established.

0002. SCOPE. This manual contains instructions for standardization of the following aspects of NBC defense: staff, organizational responsibilities, operations and defensive procedures, NBCD training and readiness, inspections, logistics and equipment.

0003. POLICY. The policy within 3d MAW is to maintain an aggressive and innovative program of NBC Defense training and readiness. Unit training must be applied effectively for 3d MAW to continue it's mission in an NBC environment.

0004. COMMAND RESPONSIBILITY. The commander is ultimately responsible for his unit's readiness and effectiveness under conditions produced by the employment of NBC type weapons. All personnel must be proficient in the application of necessary individual protective measures. Furthermore, personnel must receive appropriate training in NBC defense protective measures to include; protection, detection, decontamination of personnel and equipment and mission oriented tasks in a contaminated environment.

0005. SUPPORTING PUBLICATIONS. Marine Corps Publications Listing Management System (PLMS) furnishes a listing of all types of publications available, including those prepared by other services. Units will thoroughly review the PLMS to ensure that appropriate publications are being ordered/maintained.

SOP FOR NBC DEFENSE

CHAPTER 1

STAFF RESPONSIBILITIES

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3. Recommend alert conditions, MOPP levels and Operational Exposure Guidance (OEG) to the Commanding General.
4. Be prepared to determine the threat of NBC agents and their impact on ongoing operations, i.e., degradation data, movement rates, crossing times, occupation times, contaminated populace and increased requests for fire support.
5. Establish priorities as necessary for the fielding of new equipment and the conduct of decontamination and survey operations.
6. Supervise the construction and execution of detection, warning and reporting, contamination control and decontamination plans.
7. Advise the Commanding General on units approaching a predetermined level of radiation exposure which may require replacement.
8. With the advice of the 3d MAW Surgeon, recommend radiation status categories and degrees of risk limits for the command.
9. Supervise the activities of the 3d MAW NBCD Officer.
10. Ensure that NBCD training is being conducted per the references.
11. Ensure the Wing NBCD SOP, the Commanding General's Evaluation checklist and appropriate orders are reviewed annually and updated as required.
12. Ensure adequate dispersion of supplies and equipment to avoid total destruction during attack.

1004. ASSISTANT CHIEF OF STAFF, AVIATION LOGISTICS DEPARTMENT (ALD)

1. Coordinate with Naval Air Command to ensure 3d MAW maintains the most current Chemical/Biological protection systems.
2. Ensure Chemical/Biological protection systems are maintained and within current standards.
3. Ensure Chemical/Biological protection system training is provided and documented for all pilots and aircrews annually.

1005. ASSISTANT CHIEF OF STAFF, G-4

1. Coordinate with the Supply Officer and 3d MAW NBC Defense Officer, for the acquisition, storage, control, issue, security, recovery, redistribution or disposal of all NBCD equipment and supplies.

SOP FOR NBC DEFENSE

CHAPTER 1

STAFF RESPONSIBILITIES

1000. COMMAND FUNCTIONS. Normal command functions and staff organizations will be adhered to during the conduct of all NBC Defense operations. NBC Defense is under the general staff cognizance of the Assistant Chief of Staff (AC/S, G-3). The following responsibilities and duties are assigned.

1001. ASSISTANT CHIEF OF STAFF, G-1

1. Coordinate with the NBC Defense Officer in the assignment of NBC Defense personnel (5702/5711) within the 3d MAW.
2. Project anticipated casualty levels for areas assessed as prime NBC targets and plan for emergency replacements.
3. Coordinate with the G-3 and Wing Surgeon to ascertain the radiation exposure status of all units within the 3d MAW.
4. Plan for POW protective NBCD equipment.
5. Plan for disposal of contaminated remains. (ref: JP 4-06, App D)

1002. ASSISTANT CHIEF OF STAFF, G-2

1. Assist in vulnerability analysis while conducting Intelligence Preparation of the Battlefield (IPB).
2. Maintain current estimates on the following areas:
 - a. Enemy intentions to employ NBC weapons.
 - b. Enemy NBC capabilities, NBC Defense equipment and NBC training status.
 - c. Provide meteorological data to the NBC Control Center.
3. Provide the mapping and topographical support to NBC Control Center.
4. Initiate counterintelligence activities to degrade the enemies ability to acquire targets for a Nuclear, Biological or Chemical attack.

1003. ASSISTANT CHIEF OF STAFF, G-3

1. Conduct vulnerability analysis while conducting Intelligence Preparation of the Battlefield (IPB).
2. Prepare operational plans and/or orders in consideration of estimated enemy NBC weapons employment capabilities and probable courses of action.

2. Designate and assign appropriate frequencies and call signs for NBC Defense operations as required.
3. Ensure that communication personnel are familiar with electromagnetic pulse (EMP) and the NBC Warning and Reporting System.
4. Ensure adequate communication facilities are available for promulgating NBC alert and/or warnings.
5. Prepare special communication instructions as required for emergency operations, such as mass evacuations, damage control, rescue and salvage.
6. Provide technical guidance to equipment decontamination teams when communications equipment is being decontaminated.

1008. ASSISTANT CHIEF OF STAFF, G-7

1. Insure coordination is conducted for the NBC Defense readiness inspections and Wing Minimum Notice Inspections on all units with in 3d MAW.
2. Insure NBC Defense CGIP dates are adhered to.

1009. 3d MAW SURGEON

1. Plan for medical considerations involving mass casualties and the treatment of the injured who may be contaminated in a NBC environment Ref: BUMEDINST 6470.10 and NAVMED P-5041).
2. Direct the training of medical personnel in the handling, treatment, processing, and evacuation of NBC casualties.
3. Advise the Commanding General on all matters pertaining to individual/unit exposure to NBC contaminants, the short and long term effects of radiation exposure, and the present and future capabilities of exposed personnel.
4. Ensure proper collection, transportation and submission of biological samples to a certified laboratory for identification.
5. Periodically monitor all individual health records to ensure up-to-date immunization of all personnel against potential biological agents as estimated by AC/S, G-2.
6. Ensure sufficient quantities of medicates are available and distributed when appropriate.
7. Plan the medical procedures of acceleration/evacuation of contaminated personnel processed through Detailed Troop Decon (DTD).

2. In coordination with the NBC Defense Officer, and when required prepare plans for and supervise the following:

- a. Damage control and mass evacuation.
- b. Construction of personnel shelters, large scale decontamination and disposal sites.
- c. Emergency engineering tasks to include water decontamination and restoration as required.

3. Ensure availability and supervise maintenance of all NBC Defense equipment.

4. Ensure that a program for licensing decontamination apparatus operators is established and complied with between the Marine Wing Service Support (MWSS) units and their respective Marine Aircraft Group (MAG) units.

5. Ensure availability of uncontaminated water supply for decontamination operations.

6. Ensure supplies and equipment are adequately dispersed to avoid total destruction during an NBC attack.

7. Supervise the operation of emergency power plants and mobile laundries.

8. Ensure an outlet is provided to establish Marine Integrated Maintenance Management System (MIMMS) of all T/E items requiring calibration which support NBC Defensive operations.

9. Establish procedures and routes for mass evacuation during an NBC attack in condition GREEN.

1006. ASSISTANT CHIEF OF STAFF, G-5

1. When planning air operations ensure the effects of NBC weapons are considered.

2. Include NBC into all future operation plans (OPLANS), operation orders (OperOs), or initiating directives.

1007. ASSISTANT CHIEF OF STAFF, G-6

1. Exercise staff supervision of communication facilities for NBC Control Centers and special teams as required to assist in control and coordination of monitor/survey and decontamination operations.

1011

SOP FOR NBC DEFENSE

1011. WING NBC DEFENSE NCOIC

1. Assist the Wing NBC Defense Officer in overall supervision of the Wing NBC Defense Program.
2. Perform the duties of the NBC Defense Officer in his absence.
3. Coordinate with the Wing Inspector for scheduling of evaluations.
4. Provide technical assistance/advice and conduct evaluations of organizations within 3d MAW to ensure the provisions of this Manual are adhered to.
5. Coordinate with the AC/S, G-1 on assignments of 3d MAW NBC personnel (MOS 5702/5711).

1012. NBC DEFENSE SCHOOL

1. Is under the cognizance and operational control of the AC/S, G-3.
2. Is staffed by the Wing Control Center team members and support personnel.
3. Is responsible for all equipment (training, operational and administrative) assigned to the NBC Defense School.
4. Request funds for training and operations directly through Marine Wing Headquarters Squadron 3 (MWHS-3).
5. Establish a Program Of Instruction (POI) that supports the mission of subordinate units within the 3d MAW.

1013. UNIT NBC DEFENSE OFFICER AND UNIT NBC DEFENSE NCO

1. NBC MOS specific personnel (NBC Officers/5702 and NBC Specialists/5711) should be assigned and employed as unit NBC Defense Officers and NBC Defense NCO's. All units not authorized 5702/5711 personnel by T/O will assign one Officer and one NCO by Special Order, as the unit NBC Defense Officer and NBC Defense NCO respectively. All NBC Defense personnel will perform their duties as guided by the contents of this SOP and its references.

8. Make recommendations to prevent and take action to detect contamination of food and water supplies. Provide guidance for the control and use of such contaminated supplies to food services personnel as it becomes necessary.

9. Monitor individual health records to ensure all personnel with incorrect vision of less than 20/70, or drivers with less than 20/40 and Flight personnel with less than 20/20 have in their possession, or have on order optical inserts for their field protective mask.

1010. WING NBC DEFENSE OFFICER

1. Coordinate with all Staff sections above concerning NBC Defense matters.
2. Ensure that each unit within the command has established passive NBC Defense protective measures to ensure mission accomplishment under any NBC conditions.
3. Advise the AC/S, G-3 on all matters pertaining to NBC Defense preparedness, team/unit training, and operations.
4. Coordinate with the Wing Inspector for scheduling of evaluations.
5. Provide technical assistance/advice and conduct evaluations of organizations within 3d MAW to ensure the provisions of this Manual are adhered to.
6. Direct and monitor the training and management of the 3d MAW NBC Defense School.
7. Coordinate with the AC/S, G-1 on assignments of 3d MAW NBC personnel (MOS 5702/5711).
8. Coordinate with the AC/S, G-2 on the collection, identification, processing and utilization of captured enemy NBC material and equipment.
9. Prepare and supervise the execution of plans and orders providing for the specialized training of NBC Defense personnel.
10. Plan and exercise overall control relative to establishing requirements for procurement, distribution, maintenance, repair and storage of NBC Defense equipment and supplies within 3d MAW.
11. Maintain a continuous estimate of vulnerability to NBC attacks and make recommendations for improving the defensive posture of the 3d MAW.
12. Supervise the Wing NBC Control Center team operations.

SOP FOR NBC DEFENSE

CHAPTER 2

ORGANIZATIONAL RESPONSIBILITIES

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SOP FOR NBC DEFENSE

CHAPTER 2

ORGANIZATIONAL RESPONSIBILITIES

2000. GENERAL. The ability of 3d MAW or any Marine unit to survive in a NBC environment will depend primarily on the preparedness and proper organization of well trained personnel and specialized teams. This section provides guidance and information on NBC Defense team assignments, organization, duties and equipment. All 3d MAW organizations will form, execute and supervise adequate training programs to ensure maximum proficiency by:

- 1) The unit
- 2) The individuals within the unit
- 3) NBC Defense teams, in all aspects of NBC Defense operations.

2001. 3D MAW COMMANDS

1. Administration

a. All units not authorized 5702/5711 personnel by T/O will assign one officer and one NCO by special order, as the unit NBC Defense Officer and NBC Defense NCO, respectively. These personnel must attend or have already attended a NBC Defense school.

b. Unit NBC Defense SOP's will be published that support the policies established within this SOP and other pertinent directives, and will: (Ref: MCO 3400.3F, MARFORPACO 3401.13D)

(1) Establish unit, staff, NBC Defense additional duty personnel and NBC Defense augmented personnel responsibilities.

(2) Contain guidance as to unit NBC Defense training, operations and logistics.

(3) Be reviewed and updated annually.

c. Turnover folder/desktop procedures will be completed in accordance with WgO 3440.5C and MCO P4790.2C.

d. Ensure a tracking system is in place and that all individuals with incorrect vision of less than 20/20, have in their possession, or have on order optical inserts for their field protective mask (Ref: NAVMEDCOMINST 6810.1).

e. The Quarterly NBC Defense Readiness Report and the Equipment Status Report will be completed according to paragraphs (3) and (4) of this chapter.

2. Operations

- a. Adhere to minimum training requirements for all levels of NBC Defense as directed in Chapter (4) of this SOP.
- b. Prepare to conduct the unit's mission in a NBC environment.
- c. Plan for and conduct immediate and operational level decontamination.
- d. Prepare to provide augmentation to the supporting MWSG element at an airfield for decontamination operations.
- e. Plan for and conduct, as required, monitor/survey operations and sampling operations.
- f. Provide support for contamination control as directed by Higher Headquarters.

3. Training

- a. Monthly training report will be submitted from all commands through the chain of command to A/CS, G-3 (attn: training). The training report will include the number of personnel who have attended the mask confidence exercises for that month and the total number for the calendar year.
- b. Quarterly NBC Defense Status Reports (Appendix A) will be submitted by the 5th day of each new quarter to: CG THIRD MAW (NBC) via E-Mail. The original signed copy will be forwarded via the Chain of Command.
- c. Ensure that unit personnel meet training requirements established for their duties.
 - (1) Proficiency standards
 - (2) Integrated training/Mission Oriented Tasks
 - (3) Decontamination
 - (a) Thorough/Operational Troop Decontamination
 - (b) Thorough/Operational Equipment Decontamination
 - (4) Monitor/Survey (grnd or air)
 - (5) M17 sanator
 - (6) AR-5 training (pilots & crews)

7. When applicable, Strike serial numbers for 3d MAW are as follows:

3d MAW	3000 - 3399
MAG-11	3400 - 3499
MAG-13	3500 - 3599
MAG-16	3600 - 3699
MAG-39	3700 - 3799
MACG-38	3800 - 3899
MWSG-37	3900 - 3999

d. Ensure that all 57XX MOS personnel are technically proficient in their MOS.

4. Logistics

a. The NBC Defense Equipment Report (Appendix B) will be submitted by those units maintaining NBC Defense Equipment ONLY. Reports will be submitted by the 5th day of each new quarter to: CG THIRD MAW (NBC) via E-Mail.

b. NBC Defense equipment will be maintained in accordance with all applicable technical manuals.

c. Personnel and units attached to a Marine Expeditionary Unit (MEU) will deploy with a standard NBC Defense pack-out.

2002. MARINE WING SUPPORT GROUP

1. Maintain the equipment necessary to support four Detailed Troop and Detailed Equipment decontamination sites. Personnel decontamination equipment will include the equipment necessary for decontamination of contaminated casualties. (Ref: MCWP 3-7.3)

2. Prepare, construct and execute decontamination and contamination control plans, with guidance from the senior wing command at each airfield.

3. The MWSS NBC Defense section has a decontamination station supervisor for each type of detailed decontamination and contamination control supervisor. It will be necessary to obtain augmentation from commands within the MAW. The number of personnel will be situation dependent.

4. Ensure a licensing program is available for the M17 Sanator.

2003. SENIOR WING COMMAND. Senior Wing commands at an airfield will be designated in Appendix 2 to Annex C of the appropriate operations plan. Within the Wing HQ, MAG-11 and MAG-16 will be prepared to act as the senior Wing command at an airfield. The responsibilities for a senior command are as follows.

1. Establish the airfield NBC Defense Control Center.

2. Coordinate medical support for decontamination sites.

3. Source support for decontamination sites beyond supporting MWSG element assets.

4. Issue supporting MWSG element decontamination plan guidance.

5. Coordinate monitor/survey and sampling operation for the airfield.

6. Coordinate the airfield contamination control plan.

SOP FOR NBC DEFENSE

CHAPTER 3

OPERATIONS AND DEFENSIVE PROCEDURES

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SOP FOR NBC DEFENSE

CHAPTER 3

OPERATIONS AND DEFENSIVE PROCEDURES

3000. GENERAL

1. Enemy attacks, particularly air/missile attacks, are normally capable of delivering NBC type weapons. It must be assumed that these attacks are NBC type weapons until it is determined otherwise.

2. The main objective of NBC Defense is to minimize the effects of an NBC attack and maintain the unit's ability to carry out its assigned mission quickly and efficiently with a minimum number of casualties.

3001. NBC DEFENSE THREAT WARNING SYSTEM. The NBC Defense threat conditions which will be utilized by 3d MAW NBC Control Center are as follows:

1. NBC THREATCON 0, COLOR CODE White

- a. Probability of attack: **NONE**
- b. MOPP Level: **READY**
- c. Threat: The enemy has no offensive NBC capabilities.
- d. Recommended actions: 3D MAW will continue to train, concentrating on mission oriented tasks (MOT's) and survival skills. Required NBC Defense equipment is on hand.

2. NBC THREATCON 1, COLOR CODE YELLOW

- a. Probability of attack: **LOW**
- b. MOPP Level: **ZERO**
- c. Threat: The enemy has offensive NBC capabilities, NBC munitions are not dispersed or deployed to forward locations.
- d. Recommended actions: Units will issue personnel NBC Defense equipment. Identify decontamination requirements and sites. Identify Patient triage sites. Select monitoring sites around the perimeter of airfields.

3. NBC THREATCON 2, COLOR CODE RED

- a. Probability of attack: **MEDIUM**
- b. MOPP Level: **TWO**
- c. Threat: Enemy intentions are to employ NBC munitions. NBC munitions are deployed/dispersed to field storage locations/firing/delivery units. Enemy troops wearing NBC protective equipment with decon elements observed with front line maneuver units. Enemy use of meteorology/radars with surface-to-surface missiles.
- d. Recommended actions: Employ detection devices and initiate selective monitoring. Preposition decontamination assets. Cover supplies and equipment not in use.

4. NBC THREATCON 3, COLOR CODE BLACK

- a. Probability of attack: **HIGH**
- b. MOPP Level: **FOUR**
- c. Threat: Enemy attack in progress. Initiation of NBC attack/counter-attack by friendly forces.
- d. Recommended actions: Seek cover, apply buddy aid

3002. NBC DEFENSE ALARM WARNING SYSTEM

1. Local Alarms. All 3d MAW units will provide an adequate NBC Defense alarm system within their local area. Percussion devices (e.g., bells, triangles, shell casing) may be used to alert personnel. Visual signals, hand and arm signals, word of mouth, portable air horns or siren alarms will also be used to alert personnel.

2. General Warning. A general warning is normally given by the 3d MAW NBC Control Center (NBCCC) when an NBC hazard is received from Higher Headquarters and/or when advance intelligence indicates the likelihood of an imminent NBC attack. The alarm will be a predetermined signal, there are many different systems within the military, MWSG maintains one type of system for 3d MAW. Individual units under attack will initiate the alarm to adjacent units and to the 3d MAW NBCCC through normal communication channels.

3003. MISSION ORIENTED PROTECTIVE POSTURE (MOPP). MOPP allows the commander options and alternatives to ensure the accomplishment of the unit mission with a minimum risk of casualties. Commanders must consult with their NBC Defense Officer during MOPP analysis to insure the appropriate levels are adhered to. The MOPP levels are associated with the NBC Defense threat warning system in paragraph 3001. (Ref: FMFM 11-19, MCRP 3-7.2A&B)

3004. NBC CONTROL CENTER OPERATIONS

1. 3d MAW NBC Control Center. The 3d MAW NBCCC will function in the ACE/TACC or COC. The NBCCC will be activated immediately upon notification/ determination of an NBC threat. It's primary purpose is to provide information to commanders, staff and organizations of 3d MAW, and to make determinations regarding hazard probability and safety. All control center operations will be guided by current NBC Defense publications.

2. Unit NBC Control Center. The control center will be activated immediately upon notification that NBC Defense operations are possible. When activated, each center will be prepared to:

- a. Receive and transmit NBC Defense information.
- b. Perform computations necessary to convert incoming reports for that unit commander.

- c. Plot, display and evaluate NBC Defense data.
- d. Disseminate NBC Defense information.

3005. MONITOR/SURVEY OPERATIONS (TEAMS)

1. Unit Monitor/Survey teams will assemble in response to any established NBC Defense condition at the prescribed location. Radio contact will be maintained with the committed NBCCC once monitor/survey teams are in the field to ensure rapid reporting of operational data. When centrally controlled by 3D MAW NBCCC, communications will be sent directly to the 3D MAW ACE/TACC. Significant data will be relayed to affected units.
2. Teams will be physically checked for complete and functioning monitor/survey equipment and protective equipment/supplies by the appropriate NBC Defense OIC/SNCO prior to mission. Briefings will be conducted to stress mission requirements, reporting procedures and emergency reactions. **At no time will a "team" consist of one Marine.** Security will be provided by the unit providing the team.

3006. DECONTAMINATION OPERATIONS (TEAM)

1. Unit Decontamination teams will assemble in response to any established NBC Defense condition at the prescribed location. Team members will be briefed by the NBC Defense OIC/SNCOIC and assigned missions as the situation dictates. All assigned missions will be closely monitored. Unit level decontamination of equipment, Operational decontamination, is the primary mission of the decontamination teams. In the event Detailed Decontamination operations are necessary, each unit will provide personnel to a centrally controlled Detailed Aircraft Decontamination/Detailed Equipment Decontamination or Detailed Troop Decontamination (DAD/DED/DTD) site. (Ref: MCWP 3-7.3)

3007. NBC DEFENSE OPERATIONS AFTER AN ATTACK

1. After a confirmed NBC attack, submit all reports to 3d MAW NBCCC for evaluation and redistribution, strike serial numbers are in para 2003.7. Until these reports can be evaluated, subordinate units must evaluate its own situation from locally collected information and make decisions accordingly.
2. Known contamination perimeters will be marked as prescribed in current NBC Defense publications. Markers will not be removed without prior notification of the Commanding General (AC/S, G-3).
3. Ensure unit personnel maintain a protective posture and that decontamination is accomplished as outlined in this SOP and current NBC Defense publications. 3d MAW units will be prepared to provide decontamination teams from their respected units to support a centralized personnel decontamination site.

4. In residual radiation contamination situations:

a. 3d MAW NBCCC will determine decay rate/soil type as rapidly as possible and relay this data to all subordinate units.

b. Monitor/Survey requirements will normally be requested by the Commanding General/MAGTF command element, but can be initiated at any level deemed necessary. All unit/organization efforts will be coordinated with the Wing NBCCC unless decentralization is authorized.

c. Radiation status reports will be made periodically.

5. Evacuation. All procedures and routes for mass evacuation will be established by the AC/S, G-4 during NBC attack condition GREEN.

6. All Clear. This condition will be set when the requirement no longer exists to maintain a protective posture. The ALL CLEAR condition will be initiated by authenticated message.

3008. COLLECTIVE PROTECTION. As collective protection systems become available to each unit, the unit will develop appropriate procedures for the storage, maintenance, usage, transportation and deployment of these systems. These procedures will be included in unit SOPs and applicable plans and orders.

SOP FOR NBC DEFENSE

CHAPTER 4

NBC DEFENSE TRAINING READINESS

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SOP FOR NBC DEFENSE

CHAPTER 4

NBC DEFENSE TRAINING AND READINESS

4000. GENERAL. NBC Defense requires the development of a knowledge base with continued maintenance to ensure the unit mission is accomplished. It is imperative that every Marine thoroughly understand the effects of NBC Weapons of Mass Destruction (WMD). To minimize the impact, NBC defense training will be integrated into all mission oriented training in order to create and maintain readiness/awareness and confidence at all levels of command. It is strongly recommended that 25% of the command personnel attend or have attended an NBC Defense school.

1. NBC Defense specialists (MOS 5702/5711) will be utilized to the fullest extent, and assigned duties within their primary MOS to ensure that NBC Defense standards of proficiency are achieved. Technical training for 5711's will be conducted per the MOS manual for proficiency standards with an annual class provided by 3d MAW NBC Defense school.

2. NBC Defense training will be based on the latest available doctrine. It will be aimed at providing units and individuals with proficiency standards necessary for accomplishing their assigned mission while in an NBC environment.

4001. PROFICIENCY STANDARDS. Achieving and maintaining individual and unit NBC Defense readiness is a command responsibility. A minimum of two (2) hours of NBC individual proficiency training will be conducted quarterly.

1. Individual standards. The general objectives of these individual NBC Defense standards are to:

a. Achieve proficiency in those individual protective measures required to survive NBC attacks and be able to conduct mission oriented tasks while in an NBC environment. With minimum reduction in combat effectiveness.

b. In addition, each Marine must be able to:

(1) Recognize visual, vocal, arm and hand signals, and sound alarms for chemical, biological and radiological hazards.

(2) Properly don, seat, and clear the protective mask.

(3) Properly don protective clothing and equipment and perform the assigned mission while in a mission-oriented protective posture (MOPP).

(4) Recognize by appearance the effects, of a chemical hazard, and take protective action.

(5) Operate individual or crew-served weapons effectively while wearing complete chemical protective clothing and equipment.

(6) Perform hasty decontamination of his/her person, clothing, personal equipment, and individual weapon and position.

(7) Be familiar with proper procedures for relieving oneself while dressed in chemical protective clothing in a contaminated area.

(8) Recognize all standard NATO markers or signs that indicate radiologically, biologically, and chemically contaminated areas.

(9) Maintain individual chemical protective equipment to include filter element(s) and the currently assigned individual field protective mask.

(10) Take proper individual protective measures against a nuclear weapon attack.

(11) Be familiar with the NBC Defense warning and reporting system.

(12) Be familiar with, or demonstrate first aid procedures, in a NBC contaminated environment.

2. Unit standards. The general objectives of unit NBC Defense proficiency standards are to accomplish mission oriented tasks while operating in a NBC environment.

a. All Marines will successfully complete a field protective mask/ensemble confidence exercise annually in accordance with current directives.

b. Exercise the capability of the unit to accomplish the following in a NBC environment.

(1) Field Training Exercises and Command Post Exercises that consistently incorporate NBC defense staff planning, operations, and continuing actions by Marines.

(2) Field-Firing Exercises in which each Marine assigned a T/O weapon fires the weapon while masked and each crew served weapon team fires its weapon while masked at least once annually.

(3) Detection of chemical agents, taking biological samples, and monitoring radiation levels.

(4) Reacting properly to the threat (e.g. donning of protective clothing and masks, while protecting all unit and individual equipment from contamination).

(5) Reporting suspected or confirmed contamination or NBC attacks via the NBC Defense warning and reporting system.

(6) Performing self-aid and follow on treatment of NBC casualties.

(7) Executing the assigned unit mission in a contaminated environment while in various MOPP levels.

(8) Decontaminate personnel, equipment and casualties upon the completion of the mission or when practical.

(9) Have personnel train to conduct their primary job function in a simulated contaminated environment while wearing various levels of MOPP.

c. These standards are expanded on and amplified by:

- (1) MCO 1510 series, Individual Training Standards
- (2) MCO 3501 series, Marine Corps Combat Readiness Evaluations System
- (3) Marine Battle Skills Training Handbook, Books 2 & 4

4002. NBC DEFENSE TRAINING FOR AIRCREWS. Helicopters will conduct aerial surveys to determine the extent of contamination in the vicinity of landing zones, in addition to providing the lift of the elements of an assault force. Effective NBC Defense training by the aircrews will enhance their ability to accomplish their missions in an NBC environment.

1. Aircrews will complete annual aviation protective mask training requirements IAW their perspective training and readiness manual. In addition to the annual requirements the following procedures must be established by group/squadron orders and conducted.

a. Conduct aircraft preflight operations while in a simulated NBC environment. (Ref: current NATOPS manual)

b. Conduct operations involving the ingress and egress of the aircrew to and from an aircraft in a simulated NBC environment. (Ref: NAVAIR A1-NBCDR-OPM-000)

c. Conduct aircraft post-flight operation while in a simulated NBC environment. (Ref: current NATOPS manual)

4003. NBC DEFENSE TRAINING. All Units will receive a minimum of four (4) hours of training per quarter to achieve proficiency in their assigned tasks. It is strongly recommended that 25% of the command personnel attend an NBCD School.

1. The 3d MAW NBC Defense Control Center team will conduct four (4) hours technical training per quarter. Groups will conduct one control center exercise per quarter.
2. Quarterly NBC Defense training will be conducted for all subordinate units. Groups with consolidated sections will conduct quarterly NBC Defense training for all subordinate units.
 - a. All units will receive four (4) hours of Monitor/Survey training per quarter. Groups will conduct a monitor/survey exercise quarterly. Training will stress operational functioning and use of monitoring/detection equipment.
 - b. All units will receive four (4) hours of Decontamination training per quarter. Groups will conduct a decontamination exercise quarterly. Training will stress the proper procedures for setting up decontamination sites and decontamination of aircraft and ground equipment, proper use of decontaminates, and proper dressing and undressing techniques.

4004. DECONTAMINATION APPARATUS TRAINING. Units will maintain a primary and alternate licensed M17 LDS (sanator) operator. MWSS's will be the licensing authority for their respective Marine Aircraft Group they support. Operators will train with the decontamination apparatus a minimum of two (2) hours per quarter. Additionally, the decontamination apparatus will be utilized in field training and ALL Commanding Generals Evaluations (CGE's).

4005. 3D MAW NBC DEFENSE SCHOOL TRAINING

1. The 3d MAW NBC Defense School is designed and equipped to assist in the training of unit NBC Defense Officers/NCO's, NBC Defense Team training and CS chamber exercises.
2. The 3d MAW NBC School has the following specialized training facilities:
 - a. CS Chamber.
 - b. Detailed Aircraft Decontamination Site.
 - c. Detailed Equipment Decontamination Site.
 - d. Detailed Troop Decontamination Site.
 - e. Classroom facilities.
3. Units desiring use of these facilities may verbally request their use at least one week in advance. A written request must be received no later than three working days after verbal approval is given.

4. The 3d MAW NBC Defense School operational requirements and CS chamber exercise procedures are outlined in WgO 3400.3I.
5. The 3d MAW NBC Defense Officer/Enlisted Course schedule will be outlined in the current edition of Wing Bulletin 1550.
6. All unit NBC Officers, NBC NCOs, monitor/survey and decontamination team members will be trained at the 3d MAW NBC Defense School or its equivalent.

4006. FORMAL SCHOOL/MARINE CORPS INSTITUTE TRAINING

1. U.S. Army Chemical School. This school provides resident and nonresident instruction for Marines requiring formal education in NBC Defense. Information is available through CG, 3d MAW (Attn: AC/S G-3/NBC Defense School).
2. Additional formal School Training. Additional formal school training is available to primary MOS 5702/5711 personnel through the following schools:

<u>School Name</u>	<u>Course length</u>
Technical Escort	4 weeks
Radiological Emergency Team Operations	2 weeks

a. Request for formal school quotas must be made via the chain of command to CG, 3d MAW (Attn: AC/S G-3 NBC Defense Officer).

3. Marine Corps Institute Courses. The following courses are recommended for NBC Defense team members and all Marines who have not attended a formal NBC Defense school:

- a. NBC Individual Survival Measures MCI 57.1
- b. Chemical Warfare Defense MCI 57.6.
- c. Nuclear Warfare Defense MCI 57.7.
- d. NBC Monitor/Survey Operations MCI 57.9.
- e. NBC Decontamination Team Operations MCI 57.10.
- f. NBC Reconnaissance and Decontamination Avoidance 57.14.

SOP FOR NBC DEFENSE

CHAPTER 5

INSPECTION PROCEDURES

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SOP FOR NBC DEFENSE

CHAPTER 5

COMMANDING GENERAL'S INSPECTION PROGRAM (CGIP)

5000. COMMANDING GENERAL'S EVALUATION. All 3d MAW Commands, excluding training squadrons, are required to stand a minimum of one NBC Defense Commanding General's Evaluation (CGE) every other calendar year. The 3d MAW NBC officer will solicit a primary and alternate date from all Commands effected for the upcoming year, those dates will be published via message, the 3d MAW TEEP and WgBul 5041 to all 3d MAW Commands no later than 15 December of the previous year. Request to reschedule an evaluation within the calendar year will be forwarded via the appropriate chain of command. Request's to reschedule outside the calendar year will require Chief of Staff approval. The following list of references apply to CGE's:

1. MCO 5040.6F USMC INSPECTIONS
2. MCO 3400.3e NBC DEFENSE READINESS AND TRAINING REQUIREMENTS
3. MARFORPACO 3401.13D SOP FOR NBC DEFENSE
4. WgO P5041.1R SOP FOR COMMANDING GENERAL INSPECTION PROGRAM (CGIP)

5001. WING MINIMUM NOTICE INSPECTIONS (MNI). A MNI will not be held within 90 days after a command inspection. A functional area MNI may be scheduled only upon approval by the Commanding General. All minimum notice inspections and operational evaluations will be announced to and coordinated with parent group commanders and a report of results provided after the specific evaluation is complete. Notification will normally be a half day notice to the command, however, no-notice may be conducted when deemed appropriate.

5002. FORMAL INSPECTIONS. The MCCRES was developed to provide for timely and accurate determination of combat readiness of FMF units to accomplish assigned missions. All units, Combat Support and Combat Service Support, are to be inspected biennially. Formal or informal MCCRES's will be conducted on units preparing to deploy to WestPac six months prior the unit deployment. Every effort must be made to include NBC Defense personnel in all tactical exercise control group planning for MCCRES evaluations. All MCCRES evaluations will be tasked out to the respective groups for evaluators.

5003. COURTESY EVALUATION. All 3d MAW commands may request a courtesy evaluation, also known as a staff assistance visit (SAV). All requests will be submitted, via the chain of command to the Wing NBCD officer. Saves may consist of all NBC Defense functional areas or any number of the individual functional areas. WgO 3440.5B will be utilized for all SAV's.

5004. REEVALUATIONS. A reevaluation will be conducted within 60 days of the initial evaluation for any functional area which receives a rating below 80 percent (non-mission capable).

SOP FOR NBC DEFENSE

CHAPTER 6

LOGISTICS AND EQUIPMENT

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DISPOSAL/REPLACEMENT	6006	6-3

SOP FOR NBC DEFENSE

CHAPTER 6

LOGISTICS AND EQUIPMENT

6000. GENERAL. NBC Defense personnel are responsible for the operational readiness of equipment which supports the NBC Defense mission. It is beyond the scope of this SOP to determine what actions NBCD personnel will perform to ensure equipment readiness. With regard to unit supply, maintenance management, embarkation, communications-electronics, medical, and motor transport personnel, their responsibilities and relationships remain unchanged. Accordingly, each unit NBC Officer/NCO must coordinate with these other commodity managers to adequately fulfill their responsibilities.

6001. SHIPPING DEFECTS. Equipment found to be deficient in quantity or damaged at the time of receipt as a result of shipping/handling should be reported on a Report of Discrepancy (ROD). Damage can be that of the container or the item itself.

6002. QUALITY DEFECTS. Equipment found to be deficient or defective based upon a visual inspection or a functional test should be reported on a Quality Deficiency Report (QDR).

6003. SERVICEABILITY. Serviceability standards for equipment which supports NBC Defense operations are found in TI 10010-20/5. Unit NBCD personnel should conduct serviceability inspections annually throughout the life of each item. Do not open packages/containers which have been specifically packaged to preserve the contents.

6004. STORAGE. Where and how equipment is stored will be at the discretion of unit commanders under the guidance of applicable warehousing and hazmat requirements and regulations. It is the responsibility of NBCD personnel to advise the commander of any restrictions or special requirements applicable to the storage of equipment which supports NBC Defense operations.

6005. EMBARKATION.

1. NBCD personnel will maintain NBC Defense equipment for embarkation. The unit embarkation officer will be responsible for the embarkation of all equipment which supports NBC Defense operations, coordination between each other is essential. It is a responsibility of NBCD personnel to advise the commander of any special considerations regarding the embarkation of equipment which supports NBC Defense operation.

2. All personnel deploying into an AOR 15 day's or longer will deploy with (1 ea) FPM, (1 ea) filter, (1 set) CPOG, (1 pair) C/B gloves w/inserts, (1 pair) C/B overboots, (1 ea) C/B hood, (1 ea) M8 paper, (1 ea) Personal Decontamination kit. The 2nd issue will be embarked and arrive in the AOR with the individual's. At no time will the 2nd issue be embarked on space available or low priority shipping. Individual protection and unit deployment policy will be strictly adhered to (Ref: USCINCCENT msg 191341Z Dec 98)

6006. DISPOSAL/REPLACEMENT. SL-8-09996A will be used in conjunction with established T/E allowances to reorder all expended items. MCO 6280.8, Hazardous Waste Minimization, and the Wing Order, must be consulted and complied with to ensure the proper disposal of all equipment times.

SOP FOR NBC DEFENSE

APPENDIX A

MONTHLY MASK CONFIDENCE EXERCISE STATUS REPORT

1. The Monthly Mask Confidence Exercise Status Report will be submitted by each Group within 3d MAW. The original signed copy will be forwarded via the Chain of Command to CG, 3d MAW (ATTN: AC/S, G-3 NBCD Officer) by the 4th day of each new month. The information contained in the report shall cover the last preceding month. Note: An advance copy may be sent via E-mail to: CG THIRD MAW (NBC).
2. A sample of the report is provided on page A-2. Failure to adhere to this format will result in reports being returned to the command for resubmission.

SOP FOR NBC DEFENSE

SAMPLE FORMAT

UNITED STATES MARINE CORPS
UNIT HEADING

3400
3/NBC
dtd

From: Commanding Officer
To: Commanding General, 3d Marine Aircraft Wing (AC/S,G-3/NBCD Officer)

Subj: MONTHLY MASK CONFIDENCE EXERCISE STATUS REPORT

1. Unit T/O strength:
2. Unit O/H strength:
3. Mask Confidence Exercise
 - a. Percentage year to date:
 - b. Personnel year to date:
 - c. Personnel remaining:
4. Point of contact concerning this matter is CWO at DSN 365 - XXXX.

I. M. MARINE
By direction

SOP FOR NBC DEFENSE

APPENDIX B

QUARTERLY NBC DEFENSE STATUS REPORT

1. The Quarterly NBC Defense Status Report will be submitted by each Group within 3d MAW. The original signed copy will be forwarded via the Chain of Command to CG, 3d MAW (ATTN: AC/S, G-3 NBCD Officer) by the 5th day of each new quarter. The information contained in the report shall cover the last preceding quarter. Note: An advance copy may be sent via E-mail to: CG THIRD MAW (NBC).
2. A sample of the report is provided on pages B-2 and B-4. Failure to adhere to this format will result in reports being returned to the command for resubmission.
3. Group NBC Defense Officers/NCO's shall submit, as part of their forwarding endorsement on the squadron reports, a group personnel status report and MOS training conducted on all 5702/5711 Marines within the group. A sample report is provided on page B-5.

SOP FOR NBC DEFENSE

SAMPLE FORMAT

UNITED STATES MARINE CORPS
UNIT HEADING

3400
3/NBC
dtd

From: Commanding Officer
To: Commanding General, 3d Marine Aircraft Wing (AC/S,G-3/NBCD Officer)

Subj: QUARTERLY NBC DEFENSE READINESS REPORT; THIRD QUARTER, CY-98

Ref: (a) CG,I MEF msg 130619Z Oct 98
(b) WgO P3440.4G

Encl: (1) Unit Training Status

Per the reference, the following report is submitted. The information provided is accurate as of 1 October 98.

2. Personnel:

- a. Unit T/O Strength:
- b. Unit O/H Strength:
- c. NBC Defense Personnel Status:

	T/O	O/H
NBCD Officers (5702)		
NBCD Specialist (5711) SNCOs		
NBCD Specialist (5711) E-5 and below		

d. NBC Defense Personnel Concerns:

- 1.
- 2.

3. Training:

a. Significant NBC Defense Training Conducted During This Quarter:

<u>DATE</u>	<u>UNIT</u>	<u>TRAINING SCHEDULED</u>	<u>LOCATION</u>
1.			
2.			

b. Mask Confidence Exercise (Personnel Total To Date - Calendar Year):

c. Significant NBC Defense Training Scheduled During Next Quarter:

<u>DATE</u>	<u>UNIT</u>	<u>TRAINING SCHEDULED</u>	<u>LOCATION</u>
1.			
2.			

d. NBC Defense Training Concerns:

(1)

(2)

4. Equipment:

Note 1: For TAMCN items in which initial fielding is complete, report information as total for TAMCN. For items in which initial fielding is not complete, report by NSN.

Note 2: Report only serviceable on-hand assets.

a. Protection:

TAMCN	NSN	NOMENCLATURE	T/E	O/H	REMARKS
C2130	8430010215978	FOOTWEAR COVERS			
C2130	843001317xxxx	GVO/BVO			
C2150	841501033xxxx	GLOVES			
C2300	841501333xxxx	SUIT, SARATOGA			
C2300	841501137xxxx	SUIT, OG-84			
C4908	424001284xxxx	MCU-2A/P FPM			
C5265	424001258xxxx	M40 FPM			
C5265	424001370xxxx	M40A1 FPM			
C5266	424001258xxxx	M42 FPM			
C5269	5895013819012	VOICE ADAPTER			
SL-3	4240011192315	C2 FILTER			
SL-3	4240012608723	HOODS, STANDARD			
SL-3	4240013763152	HOODS, QUICK-DOFF			
SL-3	4240014131540	SECOND SKIN (S)			
SL-3	4240014131543	SECOND SKIN (M/L)			

Note 1: For C2300 - Suit, Saratoga: Include in the remarks column, total number of serviceable desert pattern Saratogas on-hand.

Note 2: For C5265 - M40A1 FPM: Report only items which have been modified with new eyelens, drinktube coupler and serial number.

Note 3: For Hoods and Hoods-Quick-DOFF: Report only items which are serviceable (if hood is being used for training, if may not be serviceable for combat).

Note 4: For Voice Adapters: List only quantities which were force fed, not items purchased with unit funds.

b. Detection:

TAMCN	NSN	NOMENCLATURE	T/E	O/H	REMARKS
A1630	6665011615407	AN/PDR-56			
C2032	6665013599307	CAM			
C2101	6665010168399	M256A1			
C2105	6665010432191	DT 236			
C2110	6665010498982	M9 TAPE			
C2375	6665011340885	WATER TEST KIT			
C5825	6665013821968	RSCAAL			
H2365	6665012221425	AN/VDR-2			
H2369	6665004893106	PP 4276			
H2370	6665010443836	AN/PDR-75			
H2372	6665011349714	IM-143			
K4685	6665000508529	M-8 PAPER			

c. Decontamination:

TAMCN	NSN	NOMENCLATURE	T/E	O/H	REMARKS
B1291	4230012518702	M17 SANATOR (A1-A3)			
C2010	841500281xxxx	APRON, TAP			
C2070	6850002976653	STB			
C2075	4230012761905	M-291			
C2080	4230007201518	M-11			
C2085	4230011334124	M-13 DAP			
C2205	4230011013984	M258A1			
K4265	6850007534827	DS2, 1 1/3 QT			
K4270	6850007534870	DS2, 5 GAL			

d. Miscellaneous:

TAMCN	NSN	NOMENCLATURE	T/E	O/H	REMARKS
C2020	4240008035839	WP BAG			
C6140	6350002705510	HAND SIREN			

e. NBC Defense Equipment Concerns:

(1)

(2)

5. Point of contact concerning this matter is CWO at DSN 365 - XXXX.

I. M. MARINE
By direction

UNIT TRAINING STATUS

1. In accordance with reference (b), the following report is submitted:

a. Unit: _____ NBC Officer: _____ NBC NCO: _____

Training Required	Hours/Qtr Required	Minimum Number Personnel trnd	Total hrs Conducted
Thorough/Operatonal Decon	4	20	
M/S (Grd&Air)	4	10	
M17 LDS Oper Trng	4	2	
AR-5 Trng	Annual	Pilots & Crews	
IPM (MOT, etc)	2	O/H	
* Mask Confidence	Annual	O/H	

* Highly recommended to include MOPP gear exchange upon completion of mask/ensemble confidence exercise.

b. Unit: _____ NBC Officer: _____ NBC NCO: _____

Training Required	Hours/Qtr Required	Minimum Number Personnel trnd	Total hrs Conducted
Thorough/Operatonal Decon	4	20	
M/S (Grd&Air)	4	10	
M17 LDS Oper Trng	4	2	
AR-5 Trng	Annual	Pilots & Crews	
IPM (MOT, etc)	2	O/H	
* Mask Confidence	Annual	O/H	

* Highly recommended to include MOPP gear exchange upon completion of mask/ensemble confidence exercise.

SOP FOR NBC DEFENSE

APPENDIX C

NBC DEFENSE EQUIPMENT REPORT

1. The Automated, Tracking, Calibration, Embarkation and Personnel System (ATCEPS) will become the NBC Defense Equipment Report and be submitted by each Group within 3d MAW. The original signed copy will be forwarded via the Chain of Command to CG, 3d MAW (ATTN: AC/S,G-3 NBCD Officer) by the 5th day of each new quarter. The information contained in the report shall cover the last preceding quarter. Note: An advance copy may be sent via E-mail to: CG THIRD MAW (NBC).
2. The NBC Defense Equipment Report will be submitted by those units maintaining NBC Defense equipment ONLY.
3. The Automated, Tracking, Calibration, Embarkation and Personnel System (ATCEPS) is pending CMC approval. ATCEPS will be released during CY 1999.
4. In the interim, the current I MEF equipment report will continue to be submitted. Upon inception of the ATCEPS all effected units will submit the ATCEPS report in lieu of the I MEF equipment report.

SOP FOR NBC DEFENSE

APPENDIX D

FIELD PROTECTIVE MASK/ENSEMBLE CONFIDENCE EXERCISE

1. General. Each individual will participate in a Field Protective Mask/Ensemble Confidence Exercise once annually. Organizations should schedule the exercise as necessary to ensure all Marines in their command are trained. Attendance rosters will be maintained by all units for at least a 24 month period.

2. Purpose

a. The purpose of the Field Protective Mask/Ensemble Confidence Exercise is to familiarize Marines with the characteristics, capabilities and protection afforded by the mask and protective overgarment under controlled conditions. Instructors will keep in mind that the objective of this exercise is not a harassment, but a confidence exercise. Therefore no exercises such as having Marines execute calisthenics with or without the field protective masks, announce names, service numbers, singing of the Marines' Hymn, nor similar action will be permitted. Under no circumstances will safety be sacrificed.

b. The exercise is designed to accomplish the following objectives:

(1) Test the fit and operation of the individuals field protective mask. It is imperative that the Marine use his/her assigned mask. To use temporary loaned masks and rotating them from person to person defeats the purposes of the exercise.

(2) Familiarize the Marine with the different MOPP levels, the chemical protective overgarment and the proper methods for conducting an operational decontamination (MOPP gear exchange) upon completion of the mask confidence exercise.

(3) Establish confidence in the individual to properly break the seal, don, clear and check their mask in a contaminated environment.

3. Requirements. (Ref: Wgo 3400.3H)

- a. Properly constructed facility.
- b. Safety Officer.
- c. Instructor.
- d. Assistant.
- e. Corpsman.
- f. Pregnant Marines are not permitted.
- g. Minimum of 20 personnel.
- h. Minimum 2 weeks notice for all mask/ensemble exercises.
- i. 48 hours notice will be given for all cancellations.
- j. If WBGT exceeds 89.9 (black flag) the exercise should be postponed.
- k. Mask/Ensemble Exercises will not be canceled for rain.

SOP FOR NBC DEFENSE

APPENDIX E

NBC DEFENSE SORTS REPORTING WORKSHEET

- | | | |
|--|-----|-----|
| 1. INDIVIDUAL AND COLLECTIVE PROTECTION..... | T/E | O/H |
| a. Does the unit possess sufficient quantities of M40/42 FPM with hoods to outfit every Marine. | T/E | O/H |
| b. Does the unit have sufficient quantities of protective ensembles (suits, gloves & overboots) per Marine. | T/E | O/H |
| c. Does the unit have sufficient C2 canister filters to provide two combat grade filters per Marine. | T/E | O/H |
| d. Does the unit have sufficient decontamination kits for every Marine. (M258A1/M291) | T/E | O/H |
| e. Does the unit possess operational collective protection equipment systems. | T/E | O/H |
| 2. DETECTION..... | T/E | O/H |
| a. Does the unit possess sufficient radiacmeters to support its missions. | T/E | O/H |
| b. Does the unit possess sufficient quantities of M256A1 detection kits. | Y N | Y N |
| c. Does the unit possess sufficient quantities of M8/M9 paper. | Y N | Y N |
| d. Does the unit possess sufficient quantities of Biological Sampling Kits. | Y N | Y N |
| 3. DECONTAMINATION..... | T/E | O/H |
| a. Does the unit possess operational M12A1/M17 decontamination systems to support decontamination operations. | Y N | Y N |
| b. Does the unit possess sufficient ABC M11 decontamination apparatus's to support decontamination operations. | Y N | Y N |
| c. Does the unit possess sufficient supplies of decontamination solutions. | Y N | Y N |
| d. Does the unit possess sufficient M13 decontamination apparatus's to support decontamination operations. | Y N | Y N |

SOP FOR NBC DEFENSE

4. WARNING AND REPORTING	T/E	O/H
a. Does the unit possess a NBC control center box with required materials, equipment and publications.	Y N	Y N
b. Does the unit possess sufficient communication capabilities to support NBC control center operations.	Y N	Y N
c. Does the unit possess sufficient NBC Defense alarms.	Y N	Y N
d. Does the unit have NBC Defense alarm procedures identified in its SOP.	Y N	Y N
5. MEDICAL	T/E	O/H
a. Does the unit possess adequate chemical agent antidotes, pretreatment medicines and vaccines.	Y N	Y N
6. TRAINING (Ref: Quarterly training report for Hours required and Number personnel required)		
a. Number of personnel trained at 3d MAW NBC DEFENSE SCHOOL		total #
b. Number of personnel completing Mask Confidence Exercise (CY)		total #
c. Number of personnel completing Individual Protective Measure Training (MOT, MOPP Ex, etc)	#hr's	#trnd
d. AR-5 training conducted (Pilots & crews)	#hr's	#trnd
e. Team training conducted for DAD/DED/DTD	#hr's	#trnd
f. Team training conducted for M/S Operations	#hr's	#trnd
g. M17 LDS Operator training	#hr's	#trnd

SOP FOR NBC DEFENSE

NBC EQUIPMENT RESOURCE AREA RATING DEFINITIONS

C-1 UNIT POSSESSES 90% OR GREATER OF REQUIRED GEAR IN A READY STATUS.

C-2 UNIT POSSESSES 80% OR GREATER OF REQUIRED GEAR IN A READY STATUS.

C-3 UNIT POSSESSES 65% OR GREATER OF REQUIRED GEAR IN A READY STATUS.

C-4 UNIT POSSESSES LESS THAN 65% OF REQUIRED GEAR IN A READY STATUS.

NBC TRAINING RESOURCE AREA RATING DEFINITIONS

IN THE PREVIOUS 6 MONTHS THE UNIT HAS COMPLETED THE FOLLOWING TRAINING OBJECTIVES:

- (1) INDIVIDUAL PROTECTIVE MEASURE TRAINING FOR ALL MARINES
- (2) AS OF THE REPORT DATE HAVE AT LEAST 70% SQUADRON PERSONNEL CURRENT FOR NBC MASK CONFIDENCE TRAINING
- (3) DAD/DED/DTD TRAINING
- (4) MONITOR/SURVEY TRAINING
- (5) SCHOOL TRAINED NBC OFFICER OR NCO
- (6) AR-5 TRAINING
- (7) M17 LDS OPERATOR TRAINING

C-RATINGS:

- C-1 ALL OF THE ABOVE OBJECTIVES FULFILLED
- C-2 FIVE OBJECTIVES COMPLETED
- C-3 FOUR OBJECTIVES COMPLETED
- C-4 LESS THAN FOUR OBJECTIVES COMPLETED

SOP FOR NBC DEFENSE

TABLE E-2

MOPP Levels Before Chemical Attack

MOPP LEVEL	OVERGARMENTS	OVERBOOTS	MASK W/HOOD	GLOVES
0	CARRIED	CARRIED	CARRIED	CARRIED
1	WORN, OPEN OR CLOSED (BASED ON TEMP)	CARRIED	CARRIED	CARRIED
2	SAME AS MOPP-1	WORN	CARRIED	CARRIED
3	SAME AS MOPP-1	WORN	WORN (OPEN OR CLOSED (BASED ON TEMP))	CARRIED
4	WORN, CLOSED	WORN	WORN CLOSED	WORN

3. Staff Considerations For MOPP. The S-3/G-3 staff will be required to give recommendations to the commander as to the appropriate MOPP for a particular mission. The commander's general guidance for the use of protective clothing and equipment should be stated in the unit SOP. The SOP should also define the levels of MOPP in detail as they will be used in that unit, what items of protective equipment are required for each level and how they are to be used. When he give his planning guidance for a particular mission, the commander may specify variations on the MOPP levels and any such variations from the SOP are published in the coordinating instructions of operation orders and plans. The staff evaluation of the unit's possible courses of action to accomplish the mission must consider the commander's guidance and required levels of protection, acceptable numbers of casualties from chemical agents, heat build up and conventional munitions, in determining what MOPP to recommend. The staff must evaluate:

a. The type mission and its relative importance to the overall operation. When this mission is analyzed in relation to chemical protection, the following questions must be answered before MOPP is established:

- (1) What work rate does the mission involve?
- (2) What will the temperature be during the mission?
- (3) Can the mission given to subordinates be changed or modified to achieve similar results with an increase in protection and a decrease in risk?

SOP FOR NBC DEFENSE

APPENDIX F

MISSION-ORIENTED PROTECTIVE POSTURE

1. Mission-Oriented Protective Posture (MOPP). MOPP is a flexible system of protection used in a NBC warfare environment to facilitate mission accomplishment. It requires the individual to wear protective equipment consistent with the threat, the work rate imposed by the mission and the temperature. See table E-2 for MOPP levels.

2. MOPP Analysis

a. Use of MOPP. All combat operations are conducted under the mission-oriented protective posture system. Of course, if there is no threat, then there is no protection requirement, but this is still MOPP. At the other extreme, when there is a continuing, immediate threat of and NBC attack and the threat force has a capability to produce an unacceptable casualty level among unprotected troops, individuals may be required to wear protective clothing and equipment for extended periods. In this case, some form of safe area must be provided so that troops can perform necessary functions that require the removal of some or all of the protective gear.

b. MOPP Flexibility-Limiting Factors. The flexibility of MOPP in providing for varying levels of individuals protection is limited by the factors described below.

(1) Heat Exhaustion. Individuals maintaining a moderate to heavy work rate while in chemical protective gear may experience heat exhaustion (dizziness and fainting) at any time, especially during periods of high temperature.

(2) Fatigue. Individuals in full chemical protective clothing and equipment will tend to experience fatigue resulting from such factors as mask breathing resistance, increase in body temperature from work energy and solar heat, and physiological stress. The individual's condition of fatigue increases the need for rest and sleep to maintain individual alertness and efficiency.

(3) Senses. Individuals who are required to perform duties involving the senses or related functions such as manual dexterity, visual acuity and voice communication will operate at varying decreased levels of efficiency, depending on training and proficiency while in full protective gear.

(4) Personnel Needs. Individuals cannot be in full chemical protection for indefinite periods and still attend to certain personnel needs such as eating, caring for wounds, shaving and elimination of body wastes.